QWALLITY APP

Test Plan

**Release *<1>***

***<15.05.24 > - <16.05.24>***

VERSION HISTORY

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID & Version #** | **Prepared**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 1 | *Ani Etibaryan* | *< 15.05.24>* | *Gohar Khachatryan* | *<date>* | release number |
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# Introduction

## Purpose of The Test Plan Document

## Check QWALLity page functionality.

The purpose of this document is to communicate the testing approach that the QA team will use for the <QWALLITY APP 01 > release. This document is targeted to the following reader groups:

**The QA Team**- This document will communicate internally the process used and the scope of the testing.

**The Development/Management Teams**- This document will provide a clear understanding of the testing approach to all external teams.

# Test ITEM

## Project description

This Test Plan is prepared for QWALLITY web application, which is a start-up IT company focused on the software quality assurance. It is the platform for courses, where the admin user can add/edit/delete the course, and the non-admin user can buy the courses. It consists of the following sections: **Home**, **About us**, **Courses** (Fundamental and Advanced), **Exercises** (Calculator, Black box, White box, Upload), **Register**, **Login,** **My courses**, **Profile Page**, **User \_ Action**, **Weather**.

## Items to be Tested / Not to be Tested

|  |  |  |  |
| --- | --- | --- | --- |
| **Item to Test** | **Test Description** | **Test Date** | **Estimation** |
| # 1 Login Page | Login as Admin and non- Admin | <15/05/24> | 1pt |
| # 2 Register Page | Register as Admin and non- Admin | <15/05/24 > | 3pt |
| # 3 Exercises Page | The all fields functionality | <15/05/24> | 3pt |
| # 4 Courses Page | The Course’s types functionality | <15/05/24> | 5pt |
| # 5 Add Course Page | Admin actions on Add course page | <15/05/24> | 3pt |
| # 6 Profile Page | The all fields functionality on profile page | <15/05/24> | 1pt |
| # 7 User\_Action | The all fields functionality on User\_Action page | <15/05/24> | 1pt |
| Total Estimation Efforts |  |  | 17pt |

## Items to Not be tested

|  |  |
| --- | --- |
| **Item Not to Test** | **Comment** |
| Weather Page | It is integrated API |
|  |  |
|  |  |
|  |  |

## Test Approach(s)

This section describes the methodology used by the QA team. Some examples of subsections are as follows:

**Functional Testing-** Testing that verify the Qwallity web page’s functionality.

**Performance Testing** – Testing which determines how the stability, speed,

scalability and responsiveness of an application holds up under a given workload.

**Integration Testing**- Testing assurance every model on web page is working correctly.

**Compatibility Testing- Qwallity** application is properly working across different browsers, databases, operating systems (OS), mobile devices, networks and hardware.

**Automated Testing Approach** – What types of automated tests will be done on this product, what is the automated testing tool to be used, where will the automated tests be documented, etc.

**Testing and Traceability** – How will you ensure that you have implemented a systematic testing approach, what testing documents are traceable back to development documents, etc.

**Scope of GUI Testing** – What parts of the GUI will be tested, will it be automated, etc.

**Integration Testing**  - Is there an integration component to the product in question, what are some of the integration challenges that need to be overcome.

**Regular Bug Triages** – Who is responsible for ensure that bugs are being prioritized on a regular basis, which QA, DEV, BA and Document Writer representatives are taking part in the regular bug reviews.

**Testing Execution and Bug Tracking** – How will the testing team keep track of their testing progress?

**Bug Severity and Priority Setting** – where are these defined clearly in order to minimize ambiguity and ensure everyone has a common understanding

**Description of the types of testing done and the testing period for this release** - Functionality Testing, API testing, Performance testing, Security testing.

## Test Deliverables

This QA testing schedule is largely based on the development and technical publications schedules. All dates are subject to change if the development or documentation milestones are moved. Here are the key dates and testing periods.

| Milestone/Project | Completion/Execution Dates |
| --- | --- |
| Requirements Review/Estimation | <mm/dd/yy> |
| *Test Case preparation* | <mm/dd/yy> |
| *Test Case review* | <mm/dd/yy> |
| Manual Testing | <mm/dd/yy> |
| Automation script preparation | <mm/dd/yy> |
| Automation code review | <mm/dd/yy> |
| Regression testing(manual+automation) | <mm/dd/yy> |

## 

## Staffing / Training Needs

* Staff: BA, PM, Dev team, QA team
* API testing training, DB testing skills

# Risk and mitigation

## Test Risks / Issues

Include in this section any areas that may impede the progress of testing. Basically this section is an outstanding items list for QA.

# Test Environment and infrastructure

## Required Infrastructure

QWALLITY web page have 2 test environment: development and production,

Also used testing tools as Jira, Asana, Zephyr

# Roles and responsibilities

## Roles and assigned responsibilities

|  |  |
| --- | --- |
| **Role** | **Responsibility** |
| Junior QA Engineer | Design test cases, review others test cases,  Executing test cases,  Analyzing test case results,  Prepare bug reports. |
| Senior QA  Engineer | Create the test specification, detailed summary of what scenarios will be tested, how they will be tested, how often they will be tested, and so on |
| QA Lead | Collect the requirements and documentation,  Make a test plan,  Monitoring and control the testing activities, making sure that the works are performed according to the plan,  Reporting about the progress and found bugs |
| Project Manager | Manage testing process,  Provide all the needed resources for the testing activities. |

## Test Team Leader/Manager

The QA Team Leader/Manager is responsible for the following:

**Team Management - Planning Tasks**

* Define detailed Test schedule for team.
* Provide initial test planning for the QA team.
* Define QA Team roles and responsibilities.
* Estimate effort for the various deliverables.
* Identify training requirements.
* Identify support requirements.
* Interview candidates to fulfill the various Software Tester roles.

**Team Management - Daily Tasks**

* Define QA tasks to be performed.
* Resolve management issues involving QA and the development team.
* Track ongoing QA preparation and execution tasks in a schedule tool.
* Manage the QA Team (motivation, assessment, and orientation of new members).

**Team Management - Weekly Tasks**

* Assign tasks to various team members.
* Attend applicable management meetings for the purpose of providing QA's approval of all change requests (when applicable).
* Chairs the team status meetings.

**Team Management – Ad hoc Tasks**

* Manage testing of software fixes during the Beta, Final and Regression phases of Testing.
* Identify potential testing roadblocks.
* Write performance reviews of testers.

**Team Management - Deliverables**

* Ensure quality, timeliness of the various testing deliverables as identified in this Strategy document.
* Provide comments as the internal testing reviewers for the development deliverables (Functional Specs, design docs, etc.).

## Software Tester

The software tester reports to the QA Team Leader/Manager and is responsible for writing and executing manual and automated tests. The Software Tester's responsibilities include:

**Test Plan/Matrices and Scripts Preparation**

* Research relevant documentation to become knowledgeable enough to understand how the application was designed for the purpose of writing Test Plans/Matrices and Scripts.
* Write test plans that can be easily reproduced.
* Write test scripts that are easy to maintain.
* Ensure test plans and scripts are Traceable to applicable requirements and functional design documents (Functional Specs, help text, Design Documents, etc.).
* Write test cases (required set-up, procedures and information).
* Attend testing overviews (if available).

**Independent Verification of Test Specs/Matrices and Scripts**

* Provide Test Plans/Matrices and Scripts for review by peers, development and marketing representatives.
* Incorporate review comments into Test Plans/Matrices and Scripts.
* Conduct peer reviews Test Plans/Matrices and Scripts.

**Test Execution**

* Execute the Test Plans and Matrices.
* Run the automated tests.
* Report problems by raising bugs in Siebel.
* Follow up on bugs previously submitted in Siebel.

**Analyze Results**

* Report on successful test spec/matrix completion.
* Report on successful automated test completion.
* Verify successful resolution of bug fixes by verifying the contents of the bug reports and rerunning the test where applicable.
* Identify issues that should be documented in the Readme/Release Notes.

# Test Schedule

## Milestones and schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Milestone** | **Deliverable** | **Effort(Person Hour)** | **Start Date** | **End Date** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |